

031004

16152 U.S. PTO

**UTILITY PATENT APPLICATION TRANSMITTAL  
(Small Entity)***(Only for new nonprovisional applications under 37 CFR 1.53(b))*Docket No.  
50118-00001Total Pages in this Submission  
49**TO THE COMMISSIONER FOR PATENTS**Mail Stop Patent Application  
P.O. Box 1450  
Alexandria, VA 22313-1450

Transmitted herewith for filing under 35 U.S.C. 111(a) and 37 C.F.R. 1.53(b) is a new utility patent application for an invention entitled:

**"FUMIGATION SYSTEM FOR A DIESEL ENGINE"**

and invented by:

**TERRY A. JONES  
GREGORY W. RITTER**If a **CONTINUATION APPLICATION**, check appropriate box and supply the requisite information:☐ Continuation ☐ Divisional ☐ Continuation-in-part (CIP) of prior application No.: \_\_\_\_\_

Which is a:

☐ Continuation ☐ Divisional ☐ Continuation-in-part (CIP) of prior application No.: \_\_\_\_\_

Which is a:

☐ Continuation ☐ Divisional ☐ Continuation-in-part (CIP) of prior application No.: \_\_\_\_\_

Enclosed are:

**Application Elements**

1. ☒ Filing fee as calculated and transmitted as described below
2. ☒ Specification having 32 pages and including the following:
  - a. ☒ Descriptive Title of the Invention
  - b. ☐ Cross References to Related Applications *(if applicable)*
  - c. ☐ Statement Regarding Federally-sponsored Research/Development *(if applicable)*
  - d. ☐ Reference to Sequence Listing, a Table, or a Computer Program Listing Appendix
  - e. ☒ Background of the Invention
  - f. ☒ Brief Summary of the Invention
  - g. ☒ Brief Description of the Drawings *(if filed)*
  - h. ☒ Detailed Description
  - i. ☒ Claim(s) as Classified Below
  - j. ☒ Abstract of the Disclosure

15364 U.S. PTO  
10/797803

031004

**UTILITY PATENT APPLICATION TRANSMITTAL**  
**(Small Entity)**

*(Only for new nonprovisional applications under 37 CFR 1.53(b))*

Docket No.  
50118-00001

Total Pages in this Submission  
49

**Application Elements (Continued)**

3. ☒ Drawing(s) *(when necessary as prescribed by 35 USC 113)*
- a. ☐ Formal Number of Sheets \_\_\_\_\_
- b. ☒ Informal Number of Sheets 04
4. ☒ Oath or Declaration
- a. ☒ Newly executed *(original or copy)* ☐ Unexecuted
- b. ☐ Copy from a prior application (37 CFR 1.63(d)) *(for continuation/divisional application only)*
- c. ☐ With Power of Attorney ☐ Without Power of Attorney
- d. ☐ DELETION OF INVENTOR(S)  
Signed statement attached deleting inventor(s) named in the prior application,  
see 37 C.F.R. 1.63(d)(2) and 1.33(b).
5. ☐ Incorporation By Reference *(usable if Box 4b is checked)*  
The entire disclosure of the prior application, from which a copy of the oath or declaration is supplied under Box 4b, is considered as being part of the disclosure of the accompanying application and is hereby incorporated by reference therein.
6. ☐ CD ROM or CD-R in duplicate, large table or Computer Program (Appendix)
7. ☐ Application Data Sheet (See 37 CFR 1.76)
8. ☐ Nucleotide and/or Amino Acid Sequence Submission *(if applicable, all must be included)*
- a. ☐ Computer Readable Form (CFR)
- b. ☐ Specification Sequence Listing on:
- i. ☐ CD-ROM or CD-R (2 copies); or
- ii. ☐ Paper
- c. ☐ Statement(s) Verifying Identical Paper and Computer Readable Copy

**Accompanying Application Parts**

9. ☒ Assignment Papers (cover sheet & document(s))
10. ☐ 37 CFR 3.73(B) Statement (when there is an assignee)
11. ☐ English Translation Document (if applicable)
12. ☐ Information Disclosure Statement/PTO-1449 ☐ Copies of IDS Citations
13. ☐ Preliminary Amendment
14. ☒ Return Receipt Postcard (MPEP 503) (Should be specifically itemized)
15. ☐ Certified Copy of Priority Document(s) (if foreign priority is claimed)
16. ☒ Certificate of Mailing
- ☐ First Class ☒ Express Mail *(Specify Label No.):* EV328104848US

*(Only for new nonprovisional applications under 37 CFR 1.53(b))*

**Total Pages in this Submission**  
**49**

17. ☒ Applicant claims small entity status. See 37 CFR 1.27.

18. ☐ Additional Enclosures (*please identify below*):

--

19. ☐ Pursuant to 35 U.S.C. 122(b)(2), Applicant hereby requests that this patent application not be published pursuant to 35 U.S.C. 122(b)(1). Applicant hereby certifies that the invention disclosed in this application has not and will not be the subject of an application filed in another country, or under a multilateral international agreement, that requires publication of applications 18 months after filing of the application.

***An applicant who makes a request not to publish, but who subsequently files in a foreign country or under a multilateral international agreement specified in 35 U.S.C. 122(b)(2)(B)(i), must notify the Director of such filing not later than 45 days after the date of the filing of such foreign or international application. A failure of the applicant to provide such notice within the prescribed period shall result in the application being regarded as abandoned, unless it is shown to the satisfaction of the Director that the delay in submitting the notice was unintentional.***

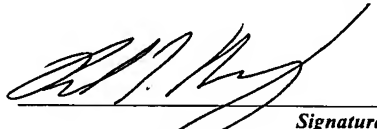
031004

18152 U.S. PTO

**UTILITY PATENT APPLICATION TRANSMITTAL**  
**(Small Entity)***(Only for new nonprovisional applications under 37 CFR 1.53(b))*Docket No.  
50118-00001Total Pages in this Submission  
49**Fee Calculation and Transmittal****CLAIMS AS FILED**

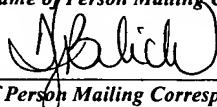
For	#Filed	#Allowed	#Extra	Rate	Fee
Total Claims	31	- 20 =	11	x \$9.00	\$99.00
Indep. Claims	4	- 3 =	1	x \$43.00	\$43.00
Multiple Dependent Claims (check if applicable) <input type="checkbox"/>					\$0.00
BASIC FEE					\$385.00
OTHER FEE (specify purpose) Assignment Recordation Fee					\$40.00
TOTAL FILING FEE					\$567.00

- ☒ A check in the amount of **\$567.00** to cover the filing fee is enclosed.
- ☒ The Director is hereby authorized to charge and credit Deposit Account No. **50-1419** as described below.
- ☐ Charge the amount of \_\_\_\_\_ as filing fee.
- ☒ Credit any overpayment.
- ☒ Charge any additional filing fees required under 37 C.F.R. 1.16 and 1.17.
- ☐ Charge the issue fee set in 37 C.F.R. 1.18 at the mailing of the Notice of Allowance, pursuant to 37 C.F.R. 1.311(b).

Dated: **MARCH 10, 2004**  
Signature

**RUSSELL T. MANNING**  
**REGISTRATION NO. 51, 260**  
**CUSTOMER NO. 25231**  
**MARSH FISCHMANN & BREYFOGLE LLP**  
**3151 S. VAUGHN WAY #411**  
**AURORA, COLORADO 80014**  
**720-562-5502**

cc:

<b>CERTIFICATE OF MAILING BY "EXPRESS MAIL" (37 CFR 1.10)</b> Applicant(s): <b>RITTER AND JONES</b>			Docket No. <b>50118-00001</b>
Serial No. <b>NOT ASSIGNED</b>	Filing Date <b>MARCH 10, 2004</b>	Examiner <b>NOT ASSIGNED</b>	Group Art Unit <b>NOT ASSIGNED</b>
Invention: <b>"FUMIGATION SYSTEM FOR A DIESEL ENGINE"</b>			
<p>I hereby certify that the following correspondence:</p> <div style="border: 1px solid black; padding: 5px;"><p><b>UTILITY PATENT APPLICATION; COVER SHEET; 4 SHEETS DRAWINGS; DECLARATION; ASSIGNMENT AND RECORDATION FORM; IDS; PTO-1449; CITED ART; PETITION TO MAKE SPECIAL; CHECK #5428; POSTCARD</b></p></div> <p style="text-align: center;"><i>(Identify type of correspondence)</i></p> <p>is being deposited with the United States Postal Service "Express Mail Post Office to Addressee" service under 37 CFR 1.10 in an envelope addressed to: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450 on</p> <p style="text-align: center;"><u><b>MARCH 10, 2004</b></u> <i>(Date)</i></p> <div style="text-align: center;"><p><b>TERRI BELICH</b> <i>(Typed or Printed Name of Person Mailing Correspondence)</i></p><p> <i>(Signature of Person Mailing Correspondence)</i></p><p><b>EV328104848US</b> <i>("Express Mail" Mailing Label Number)</i></p></div>			
<p><b>Note: Each paper must have its own certificate of mailing.</b></p>			

PATENT APPLICATION

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In Re the Application of:

RITTER and JONES

Serial No.: Not Yet Assigned

Filed: March 10, 2004

Confirmation No.: Not Yet Assigned

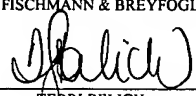
Atty. File No.: 50118-00001

For: "FUMIGATION SYSTEM FOR A  
DIESEL ENGINE"

) Group Art Unit: Not Yet Assigned

) Examiner: Not Yet Assigned

) PETITION TO MAKE SPECIAL  
) UNDER RULE 102(c)

<p style="text-align: center;">CERTIFICATE OF MAILING</p> <p>I HEREBY CERTIFY THAT THIS CORRESPONDENCE IS BEING DEPOSITED WITH THE UNITED STATES POSTAL SERVICE AS EXPRESS MAIL NO. EV328104848US ADDRESSED TO COMMISSIONER FOR PATENTS, P.O. BOX 1450, ALEXANDRIA, VA 22313-1450 ON MARCH 10, 2004.</p> <p style="text-align: center;">MARSH FISCHMANN &amp; BREYFOGLE LLP</p> <p style="text-align: center;"> BY: _____ TERRI BELICH</p>
---

Commissioner for Patents  
P.O. Box 1450  
Alexandria, VA 22313-1450

Dear Sir:

Applicant hereby requests that the Commissioner of Patents accord "special" status to the subject application, advancing its examination under the provisions of Rule 37 C.F.R. §1.102(c) and in accordance with Paragraph V, of the Manual of Patent Examining Procedure.

The invention relates to a fumigation system that allows for the controlled injection of gaseous fuels into the intake air of a diesel engine. Injection of such gaseous fuels allows the diesel engine to more completely combust fuels and thereby achieve enhanced fuel economy as well as lower engine emissions. In the latter regard, it will be noted that oxides of nitrogen (NO<sub>x</sub>) emissions and particulate emissions from diesel engines are often several times that of comparably sized gasoline engines. The present invention allows for reducing NO<sub>x</sub> and particulate emissions from

diesel engines to levels that are comparable with gasoline engines and thereby materially enhances quality of the environment by reducing air pollution. It is respectfully urged that this Petition be granted.

Respectfully submitted,

MARSH FISCHMANN & BREYFOGLE LLP

By: 

Russell T. Manning, Esq.  
Registration No. 51,260  
3151 South Vaughn Way, Suite 411  
Aurora, Colorado 80014  
(720) 562-5502

Date: March 10, 2004